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### [1. AF11-BT05: Printable Integrated Photonic Devices](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors OBJECTIVE: Develop proof-of-concept printing technology for the design, modeling and manufacture of integrated photonic devices at low dimensions. DESCRIPTION: Printable electronics and photonics are emerging technologies that have attracted a lot of attention over the last decade. Traditionally, CMOS processes have been used to fabricate electronic and ph ...

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### [2. AF11-BT06: Sensitivity Analysis Methods for Complex, Multidisciplinary Systems](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Air Platform, Information Systems OBJECTIVE: Develop computational tools to compute response sensitivities of parametric multidisciplinary systems that exhibit nonlinear, dynamic behavior for use in gradient-based optimization, smart sampling, uncertainty quantification, and risk analysis. DESCRIPTION: Much progress has been made in the development of algorithms f ...

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### **[3. AF11-BT07: High efficiency materials & processes for the reduction of CO2 to syngas](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Air Platform, Materials/Processes OBJECTIVE: Develop high efficiency (>70%) electrodes for electrochemical conversion of CO2 and water to syngas for JP-8 production. DESCRIPTION: The efficient conversion of CO2 into storable liquid fuels would help create a secure and sustainable source of carbon-neutral transportation fuels. Two approaches to this are to ...

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### **[4. AF11-BT08: Plasma Simulation Code Encompassing Single-Fluid through Two-Fluid Models](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Space Platforms, Weapons OBJECTIVE: This topic seeks to develop robust unified plasma simulation software that encompasses single-fluid through two-fluid models and that is widely applicable to the large parameter space of Air Force needs in a single software package. DESCRIPTION: This topic seeks to develop robust unified plasma simulation so ...

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### **[5. AF11-BT09: Intracellular Detection of Small Molecules in Live Cells](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Chemical/Bio Defense, Biomedical, Sensors OBJECTIVE: For the defense of toxic chemical and biological agents, the objective is to develop a broad-based biosensor, with "off" to "on" functionality that will allow for sensing of potential hazards. DESCRIPTION: Many sensors exist for detecting chemical and biological agents in non-biological e ...

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### **[6. AF11-BT10: Innovative Electric Propulsion Technology for Responsive Space](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Space Platforms OBJECTIVE: Develop new electric propulsion concepts with highly flexible operating envelope of thrust and specific impulse for both rapid maneuvering of large space assets and highly efficient orbit and station-keeping. DESCRIPTION: The ability to rapidly perform space maneuvers, between various orbital inclinations, or between geostationary and lo ...

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**7. [AF11-BT11: Technologies for Nanoscale Imaging Using Coherent Extreme Ultraviolet and Soft X-Ray Light](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors OBJECTIVE: To explore next-generation nanoscale dynamic imaging microscope technologies employing Coherent Diffractive Imaging combined with a tabletop-scale coherent EUV/ soft x-ray sources. DESCRIPTION: Intense femtosecond laser pulses propagating through gases can generate, through a process known as high harmonic generation, coherent extreme ultraviolet ...

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**8. [AF11-BT12: Routing for IP based Satellite Ad-Hoc Networks](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Space Platforms OBJECTIVE: Demonstrate novel IP routing protocols onboard over satellites that would link user preferences and network conditions and improve end-to-end network performance, including heterogeneity of satellite nodes, interferences of satellite links, etc. DESCRIPTION: The defense satellite communication system (DSCS) is a satellite ...

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**9. [AF11-BT13: Conformal, Light-Weight & Load-Bearing Antennas Based on Conductive Textile Threads](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Electronics OBJECTIVE: To develop conformal, light-weight and load-bearing antennas based on conductive textile threads that can endow small unmanned aerial vehicles (UAV's) with operational capability down to the UHF band. DESCRIPTION: Communication missions of small UAV's in low-altitude operation are severely limited for the signal ...

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**10. [AF11-BT14: MIMO Radar Clutter Modeling](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors OBJECTIVE: Develop physics-based MIMO radar clutter modeling and simulation capability. DESCRIPTION: Fundamental to the performance evaluation of putative optimal and adaptive MIMO radar signal processing algorithms is a characterization of clutter in terms of its statistical and spectral properties. Radar clutter is the resultant of many scattering mechanisms ...

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